

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application. Please amend claims 1 and 14 as follows:

LISTING OF CLAIMS:

1. (Currently Amended) A multi-dimensional table data management unit implemented on a computer, comprising:

table data management means, ~~which is implemented on a computer,~~ for managing a plurality of n-dimensional tables (n is a natural number equal to or larger than 3) as a processable data group of an n-dimensional data block, and for numerical logical operation and position conversion of n-dimensional discrete data of the tables in n-dimensions for data management, wherein n-dimensional discrete data is configured, not by overlaying two-dimensional tables, but by using an n-dimensional discrete data aggregate; and

output means for outputting a result of the data management.

2. (Original) The multi-dimensional table data management unit as claimed in claim 1, further comprising calculation processing means for executing a table calculation function based on the item data in each dimension of the data block.

3. (Original) The multi-dimensional table data management unit as claimed in claim 1, wherein said table data management means execute a table editing function based on the item data of the data block in each dimension.

4. (Original) The multi-dimensional table data management unit as claimed in claim 1, wherein said table data management means enclose a portion of a sequence of tables with punctuation tables to define the data block.

5. (Original) The multi-dimensional table data management unit as claimed in claim 4, wherein information indicating a start is added to a first table in the data block to make the first table act as the punctuation table.

6. (Original) The multi-dimensional table data management unit as claimed in claim 4, wherein information indicating an end is added to a last table in the data block to make the last table act as the punctuation table.

7. (Original) The multi-dimensional table data management unit as claimed in claim 1, wherein a title is attached to each of the tables of the data block.

8. (Original) The multi-dimensional table data management unit as claimed in claim 3, wherein, in response to a plurality of sorted item data for which sorting is specified in the data block and a sort direction thereof, said table data management means sort the entire data block by exchanging storage positions where item data for which the sorting is not specified is stored.

9. (Original) The multi-dimensional table data management unit as claimed in claim 3, wherein said table data management means rotate the data block

according to a specified rotation axis, a rotation direction, and an angle to exchange storage positions of the item data.

10. (Original) The multi-dimensional table data management unit as claimed in claim 1, wherein said table data management means combine a plurality of data blocks to generate a new data block.

11. (Original) The multi-dimensional table data management unit as claimed in claim 10, wherein said table data management means combine and compose the plurality of data blocks to generate the new data block.

12. (Original) The multi-dimensional table data management unit as claimed in claim 10, wherein, when the plurality of data blocks are combined, said table data management means includes only a common portion to generate the new data block.

13. (Original) The multi-dimensional table data management unit as claimed in claim 10, wherein, when the plurality of data blocks are combined, said table data management means excludes only a common portion to generate the new data block.

14. (Currently Amended) A recording medium, for use with a computer system having an input device and an output device, said recording medium recording therein a spreadsheet program that defines a plurality of n-dimensional

tables (n is a natural number equal to or larger than 3) as a processable data group of an n -dimensional data block, and defines numerical logical operation and position conversion of n -dimensional discrete data of the tables in n -dimensions for data management, wherein n -dimensional discrete data is configured, not by overlaying two-dimensional tables, but by using an n -dimensional discrete data aggregate.

15. (Original) The recording medium according to claim 14 wherein said spreadsheet program executes a table calculation function based on the item data in each dimension of the data block.

16. (Original) The recording medium according to claim 14 wherein said spreadsheet program executes a table editing function based on the item data of the data block in each dimension.

17. (Original) The recording medium recording according to claim 14 wherein said spreadsheet program processes the data block defined by enclosing a portion of a sequence of tables with punctuation tables.